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Improved Backpressure Regulator**Abstract**

A backpressure regulator, consistent with an embodiment of the invention, includes a hinged arm attached to a movable stop that is positioned to cover a port connected to a pressurized conduit, when the arm of the regulator is in a closed position. When the pressure in the conduit exceeds a set point, the arm moves away from the closed position, allowing fluid to escape the pressurized conduit. When the pressure in the conduit returns to, or below the set point, the arm returns to a closed position. Other backpressure regulators in accord with embodiments of the invention may include an adjustable counter mass for altering the set point of the regulator; a specifically designed leak vent when the arm of the regulator is in a closed position; or a port having an orifice connected to the pressurized conduit. The port may optionally have a drain orifice as well.